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NOTICE OF ALLOWANCE AND FEE(S) DUE

28289

7590

05/04/2004

WEBB ZIESENHEIM LOGSDON ORKIN & HANSON, P.C. 700 KOPPERS BUILDING 436 SEVENTH AVENUE PITTSBURGH, PA 15219

EXAMINER

NGUYEN, VINCENT Q

ART UNIT

ww.uspto.gov

PAPER NUMBER

2858

DATE MAILED: 05/04/2004

| 1 | APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|-------------|----------------------|---------------------|------------------|
| | 10/616.641 | 07/09/2003 | William H. Howland | 1880-031286 | 3435 |

TITLE OF INVENTION: APPARATUS FOR DETERMINING DOPING CONCENTRATION OF A SEMICONDUCTOR WAFER

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | YES | \$665 | \$300 | \$965 | 08/04/2004 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATEN <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHT THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPO PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM TH MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THE STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOV REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (O AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WIL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

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A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is n claiming SMALL ENTITY status, check the box below and enclo the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) w your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE C mmissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 (703) 746-4000

or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed wh appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS"

maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

28289

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05/04/2004

WEBB ZIESENHEIM LOGSDON ORKIN & HANSON, P.C. 700 KOPPERS BUILDING 436 SEVENTH AVENUE PITTSBURGH, PA 15219

Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, m have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the Un States Postal Service with sufficient postage for first class mail in an envel addressed to the Mail Stop ISSUE FEE address above, or being facsim transmitted to the USPTO, on the date indicated below.

(Depositor's na (Signat (D

| APPLICATION NO. | FILING DATE FIRST NAMED INVENTOR | | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
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| EXAM | MINER | ART UN | IT | CLASS-SUBCLASS |] | |
| NGUYEN, | VINCENT Q | 2858 | | 324-717000 | | |
| 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. | | | 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. | | | |

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

| been previously submitted to the USPTO or is being sub (A) NAME OF ASSIGNEE | r, no assignce data will appear on the p mitted under separate cover. Completion (B) RESIDENCE: (CITY | n of this form is | NOT a substitute for filing an assignment. | n assignment |
|---|--|---------------------|--|--------------|
| Please check the appropriate assignee category or categories | s (will not be printed on the patent); | □ individual | ☐ corporation or other private group entity | □ governm |
| 4a. The following fee(s) are enclosed: | 4b. Payment of Fee(s): | | | |
| ☐ Issue Fee | A check in the amou | nt of the fee(s) | is enclosed. | |
| ☐ Publication Fee | Payment by credit ca | rd. Form PTO- | 2038 is attached. | |
| Advance Order - # of Copies | The Director is here Deposit Account Numb | by authorized er | by charge the required fee(s), or credit any enclose an extra copy of this | |
| Director for Patents is requested to apply the Issue Fee and | Publication Fee (if any) or to re-apply a | ny previously p | aid issue fee to the application identified abo | ve. |
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| NOTE; The Issue Fee and Publication Fee (if required) other than the applicant; a registered attorney or agent interest as shown by the records of the United States Pater | or the assignee or other party in | | | |
| This collection of information is required by 37 CFR 1 obtain or retain a benefit by the public which is to file application. Confidentiality is governed by 35 U.S.C. 122 estimated to take 12 minutes to complete, including gath completed application form to the USPTO. Time will v case. Any comments on the amount of time you requesuggestions for reducing this burden, should be sent to the patent and Trademark Office, U.S. Department of 22313-1450. DO NOT SEND FEES OR COMPLETE SEND TO: Commissioner for Patents, Alexandria, Virginian potential of the patents of the pate | (and by the USPTO to process) an and 37 CFR 1.14. This collection is ering, preparing, and submitting the ary depending upon the individual aire to complete this form and/or the Chief Information Officer, U.S. Commerce, Alexandria, Virginia D FORMS TO THIS ADDRESS. la 22313-1450. | | | |
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ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE FIRST NAMED INVENTOR CONFIRMATION NO. 07/09/2003 William H. Howland 1880-031286 3435 10/616,641 **EXAMINER** 28289 7590 05/04/2004 WEBB ZIESENHEIM LOGSDON ORKIN & HANSON, P.C. NGUYEN, VINCENT Q 700 KOPPERS BUILDING ART UNIT PAPER NUMBER **436 SEVENTH AVENUE** PITTSBURGH, PA 15219 2858 DATE MAILED: 05/04/2004

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after t mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a ha months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date th determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retriev (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

| | | | - |
|---|---|--|---------------------------|
| | Application No. | Applicant(s) | |
| AL 45 PAH L-11/4 | 10/616,641 | HOWLAND, WILLIA | М Н. |
| Notice of Allowability | Examin r | Art Unit | |
| | Vincent Q Nguyen | 2858 | |
| The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to | plication. If not include n will be mailed in due | ed course. THIS |
| 1. \boxtimes This communication is responsive to <u>Response filed 4/23/2</u> | <u>2004</u> . | | |
| 2. The allowed claim(s) is/are <u>1-8</u> . | | | |
| 3. A The drawings filed on <u>09 July 2003</u> are accepted by the Ex | kaminer. | | |
| 4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: | e been received. e been received in Application No | | tion from the |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | of this communication to file a reply IENT of this application. | complying with the red | quirements |
| 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give | nitted. Note the attached EXAMINEF es reason(s) why the oath or declar | R'S AMENDMENT or Nation is deficient. | OTICE OF |
| 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet in the state of the sheet in the state of the sheet. | son's Patent Drawing Review(PTC s Amendment / Comment or in the | Office action of | back) of |
| 7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT | SIT OF BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC | must be submitted. P CAL MATERIAL. | Note the |
| Attachm nt(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date | 8. ⊠ Examiner's Statem 9. □ Other | / (PTO-413), ate ment/Comment | |
| | | ogy Center 2800 | |

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-8 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

The prior art of record does not teach or suggest a device for determining the doping concentration having a probe having an electrically conductive tip and an electrical insulator covering at least a distal end of the conductive tip; means for determining from the CV response a doping concentration of the semiconductor wafer, as recited in the independent claim 1, and in combination of the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the 3. examiner should be directed to Vincent Q Nguyen whose telephone number is (571) 272-2234. The examiner can normally be reached on Mon-Fri 8:30am-5:00pm.

Page 3

Application/Control Number: 10/616,641

Art Unit: 2858

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le can be reached on (571) 272-2233. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9306.

Vincent Q. Nguyen

April 29, 2004